IN THE CLAIMS

The following is a complete listing of revised claims with a status identifier in parenthesis.

LISTING OF CLAIMS

1.   (Currently Amended) A method for grouping cells comprising:

generating [a linear program representing] a sum of weighted values associated with each cell, which represent a paging cost, and each edge between adjacent cells, which represent an updating cost, and grouping constraints; and

assigning a cell to a group based on the weighted value sums [solutions of the linear program.]

2.   (Currently Amended) The method as in claim 1 wherein the generation of the weighted value sums produces [solutions comprise] fractional values.

3.   (Original)   The method of claim 1 wherein each cell comprises a wireless cell.

4.   (Canceled)

5.   (Original)   The method of claim 2 further comprising rounding the fractional values into integer values.

6.   (Original)   The method as in claim 5 further comprising rounding the fractional values using region growing.

7.   (Currently Amended) The method as in claim 5 [1] wherein rounding further [the linear program] comprises using a variable, where the variable equals:

a first value, if elements i and j belong to different groups, or

a second value, if i and j belong to the same group.

8.   (Original)   The method as in claim 7 wherein the first value equals 1 and the second value equals 0.

9.   (Original)   The method as in claim 1 wherein the group comprises a location area associated with one or more wireless networks.

10.   (Original)   The method as in claim 5 further comprising approximating costs associated with updating and paging operations of one or more wireless networks from the rounded values.

11.   (Currently Amended) A method for grouping cells [in a line] comprising:

generating [a dynamic program representing] a sum of weighted values associated with each cell in a line, which represent a paging cost, and each edge between adjacent cells in a line, which represent an updating cost, and grouping constraints; and

assigning a cell to a group based on the weighted value sums [solutions of the dynamic program].

12.   (Currently Amended) A [programmed device] computer readable medium for grouping cells operable to:

generate [a linear program representing] a sum of weighted values associated with each cell, which represent a paging cost, and each edge between adjacent cells, which represent an updating cost, and grouping constraints; and

assign a cell to a group based on the weighted value sums [solutions of the linear program.]

13.   (Currently Amended) The [programmed device] computer readable medium as in claim 12 wherein the [solution comprises] generatation of the weighted value sums produces fractional values.

14.   (Currently Amended) The [programmed device] <u>computer readable medium</u> of claim 12 wherein each cell comprises a wireless cell.

15.   (Canceled).

16.   (Currently Amended) The [programmed device] <u>computer readable medium</u> of claim 13 further operable to round the fractional values into integer values.

17.   (Currently Amended) The [programmed device] <u>computer readable medium</u> as in claim 16 further operable to round the fractional values using region growing.

18.   (Currently Amended) The [programmed device] <u>computer readable medium</u> as in claim <u>16 further operable to round the fractional values using</u> [12 wherein the linear program comprises] a variable, where the variable equals:

a first value, if elements i and j belong to different groups, or

a second value, if i and j belong to the same group.

19.   (Currently Amended) The [programmed device] <u>computer readable medium</u> as in claim <u>18</u> [14] wherein the first value equals 1 and the second value equals 0.

20.   (Currently Amended) The [programmed device] as in claim 12 wherein the group comprises a location area associated with one or more wireless networks.

21.   (Currently Amended) The [programmed device] <u>computer readable medium</u> as in claim <u>16</u> [12] further operable to approximate costs associated with updating and paging operations of one or more wireless networks from the rounded values.

22.   (Currently Amended) A [programmed device] <u>computer readable medium</u> for grouping cells [in a line] operable to:

generate [a dynamic program representing] a sum of weighted values associated with each cell in a line, which represent a paging cost, and each edge between adjacent cells in a line, which represent an updating cost, and grouping constraints; and

assign a cell to a group based on the weighted value sums [solutions of the dynamic program.]